

Table 1. Sequences of the markers used to identified the QTLs underlying soy-phytoestrogen content of the soybean seed and the BAC clones identified using those sequences.

MARKER NAMES	SSR PRIMER SEQUENCES		SEQ ID NO.	BAC CLONES IDENTIFIED
Satt130	F: TGG TAG TGA AAG CAC GAC ATG R: AAC ACT TTG AAT CGC TAA AAA C		1 2	SoyH130-1, SoyH130-2, SoyB130-1
Satt356	F: CATGCCTGGTCCATTTTG R: TCAAGCCACGATAACAGTA		3 4	SoyH356-1, SoyH356-2, Soyh356-3 Soyb356-1, Soyb356-2
Satt317	F: GCGAACAAACTTTCTATACATGATAACA R: GCGGGTATATTTTGACATAAGTTGGAA		5 6	SoyH317-1, SoyB317-3, SoyB317-1, SoyB317-2
Satt306	F: GCGCTTAAGGACACGGATGTAAC [R: GCGTCTCTFI7TCGATTGTTCTATTAG] R: GCGTCTCTTCGATTGTTCTATTAG		7 8	SoyH306-1, SoyH306-2, SoyB306
Satt210	F: GCGAAAAACGTCAGGTCAATGACTGAAA R: GCGGGGCTTAGATATAAAAAAAAGATG		9 10	Satt210, SoyH210-1, SoyB210-1, SoyB210-2, SoyB210-3
Satt308	[F: GCG7FFAAGGTTGGCAGGGTGGAAAGTG] F: GCGTTAACGTTGGCAGGGTGGAAAGTG R: GCGCAGCTTTATACAAAAATCAACAA		11 12	SoyH308-1, SoyH308-2, SoyH308-3, SoyB308-1, SoyB308-2
Satt337	F: GCGTAAATCTGATATATGTTACCACTGA R: GCGTAATACGCAAAACATAATTAGCCTA		13 14	SoyH337-1, SoyH337-2, SoyH337-3, SoyB337-1, SoyB337-2, SoyB337-3
Satt326	F: AGATTCTCCTTGCTTCTTAGT R: GTTAGTTCACCTTCCAGTATTGAA		15 16	SoyH326-1, SoyH326-2, SoyB326-1, SoyB326-3, SoyB356-2
Sat_116	F: CGT GAA CCA TAA TTA AAA TAT AAA T R: TTT TCT TAT CTC TTT TAA CCT ATC A		17 18	SoyH116-1, SoyB116-1, SoyH116-2, SoyB116-3
Satt240	F: GCGCCCTTGGATTTATTGC R: TTTCACCTTCCCTTCTTTGA		19 20	SoyH240-1, SoyH240-2, SoyB240-1, SoyB240-2
Satt306	F: GCGCTTAAGGACACGGATGTAAC [R: GCGTCTC1TTGATTGTTCTATTAG] R: GCGTCTCTTCGATTGTTCTATTAG		21 22	SoyH306-1, SoyH306-2, SoyH306-3, SoyB306-1, SoyB306-2, SoyB306-3
Satt251	F: CCTCCACCCCCCTTCCCACCCAAAA R: GGTGATATCGCGCTAAAATTA		23 24	SoyH251-1, SoyB251-1, SoyB251-2, SoyB251-3
Satt369	F: AACATCCAAAGAAAATGTGTTCACAA [R: GCGAGTTCGAATYfCTTTCAAGT] R: GCGAGTTCGAATTCTTTCAAGT		25 26	SoyH369-1, SoyH369-2, SoyB369-1, SoyB369-2
Satt231	F: GCGTGTGCAAAATGTTCATCATCT R: GGCACGAATCAACATCAAAACTTC		27 28	SoyH231-1, SoyH231-1, SoyB231-1, SoyB231-1
Satt415	F: GCGTCTCCCTTAATCTTCAAGC R: GCGTGTGACGGTTCAAAATGATAGTT		29 30	SoyH415-1, SoyB415-1, SoyB415-2
Satt197	F: CACTGCTTTTCCCCTCTCT R: AAGATAACCCCCAACATTATTTGTAA		31 32	SoyH197-1, SoyH197-1, SoyB197-1, SoyB197-1
Satt324	F: GTTCCCAAGGTCCCCACCATCTATG R: GCGTTCTTYATACCTTCAAG		33 34	SoyH324-1, SoyH324-1, SoyH324-3, SoyB324-1, SoyB324-2

F = Forward R = Reverse

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Satt306

Forward GCGCTTAAGGACACGGATGTAAC

Reverse GCGTCTTTCGATTGTTCTATTAG

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Satt308

Forward GCGTTAAGGTTGGCAGGGTGGAAAGTG

Reverse GCGCAGCTTATACAAAAATCAACAA

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Satt369

Forward AACATCCAAAGAAATGTGTCACAA

Reverse GCGAGTTCGAATTCTTTCAAGT

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Satt324

Forward GTTCCCAGGTCCCACCATCTATG

Reverse GCGTTCTTTATACCTTCAAG

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